



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

WEI HUANG, MERL. F. HOEKSTRA,
SANDRA K. LEE, NICHOLAR CAIRNS,
LAWRENCE M. KAUVAR, and
J. RICHARD SPORTSMAN

May 2, 2001

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Serial No. : 09/596,444

Filed : November 24, 2000

Group Art Unit: 1645

For : PHOSPHORYLATION ASSAYS

Commissioner for Patents
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56, 1.97 and 1.98

Pursuant to applicants' duty of disclosure required under 37 C.F.R. § 1.56, applicants are submitting this information disclosure statement under 37 C.F.R. §§ 1.97 and 1.98 to bring to the attention of the U.S. Patent and Trademark Office the references listed on the attached PTO-1449 forms. Copies of the listed references are not included because they were supplied in the parent case (Application Serial No. 08/929,095), as permitted under 37 C.F.R. § 1.98. The listing of these references and the prior submission of copies of these references are not admissions that the listed or submitted references are prior art for this application.

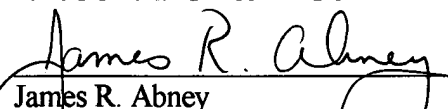
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Gillian Gardner

Respectfully submitted,

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Attorney for Applicants



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GAU 1645

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TECH CENTER 1600/2900

Application of

WEI HUANG, MERL. F. HOEKSTRA,
SANDRA K. LEE, NICHOLAR CAIRNS,
LAWRENCE M. KAUVAR, and
J. RICHARD SPORTSMAN

May 3, 2001

Serial No. : 09/596,444

Filed : November 24, 2000

Group Art Unit: 1645

For : PHOSPHORYLATION ASSAYS

Commissioner for Patents
Washington, D.C. 20231

Sir:

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56, 1.97 and 1.98**

Pursuant to applicants' duty of disclosure under 37 C.F.R. § 1.56, applicants are submitting this supplemental information disclosure statement under 37 C.F.R. §§ 1.97 and 1.98 to bring to the attention of the U.S. Patent and Trademark Office the references listed on the attached PTO-1449 forms. The listing of these references and/or the submission of copies of any of these references is not an admission that the listed or submitted references are prior art for this application.

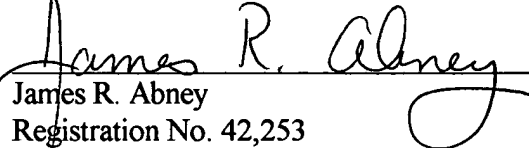
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A circular black ink stamp from the Office of Intellectual Property (OIPES). The text "OIPES" is curved along the top inner edge, and "PATENT & TRADEMARK OFFICE" is curved along the bottom inner edge. In the center, the date "MAY 07 2001" is stamped horizontally. The stamp is partially obscured by a dark, irregular mark on the right side.

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SHEET 1 OF 1

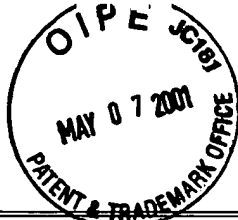
FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION	DOCKET NUMBER LJL 354B	APPLICATION NUMBER 09/596,444
	APPLICANT Wei Huang et al.	
	FILING DATE June 19, 2000	GROUP ART UNIT 1645

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

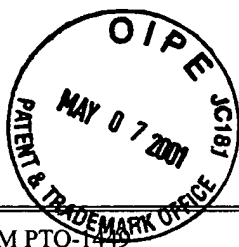
	<i>Fluorescence Anisotropy Applied to Biomolecular Interactions</i> , D.M. Jameson et al., <u>Methods in Enzymology</u> , (1995) 246:283-300.
	<i>Post-Translational Modification of Proteins</i> , R. Krishna, <u>Advances in Enzymology</u> (1993) 67:265-299.

EXAMINER	DATE CONSIDERED
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SHEET 1 OF 12

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION			DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444	
			APPLICANT Wei Huang et al.			
			FILING DATE June 19, 2000		GROUP ART UNIT 1645	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	3,135,793	6/2/64	Bruce et al.			
	3,214,377	10/26/65	B.W. Hotten			
	3,504,052	3/31/70	Neuse et al.			
	3,530,049	9/22/70	Scherzer et al.			
	3,925,162	12/9/75	Kanno			
	3,996,345	12/7/76	Ullman et al.			
	3,966,556	6/29/76	Rubenstein et al.			
	4,181,654	1/1/80	Weitl et al.			
	4,199,559	4/22/80	Ullman et al.			
	4,205,952	6/3/80	Cais			
	4,220,722	9/2/80	Rowley et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO81/01883	7/9/81	WIPO			XX
	WO87/07385	12/3/87	WIPO			XX
OTHER DOCUMENTS						
		<i>Structural Concepts in Immunology and Immunochemistry</i> , Kabat, 2 nd Ed., pp. 103-105, 1976.				
		Joseph R. Lakowicz, <i>Principles of Fluorescence Spectroscopy</i> , First Edition, September 1983.				
		<i>Photoelectroanalytical Chemistry: Possible Interferences in Serum and the Selective Detection of Tris(2,2'-bipyridine)ruthenium(II) in the Presence of Interferents</i> , Weber et al., <i>Clin. Chem.</i> , Vol. 29, No. 9, pp. 1665-1672 (1983).				
		<i>Application of the Energy Gap Law to Nonradiative, Excited-State Decay</i> , Caspar et al., <i>J. Phys. Chem.</i> , Vol. 87, pp. 952-957, 1983.				
EXAMINER			DATE CONSIDERED			



FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION			DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444	
			APPLICANT Wei Huang et al.			
			FILING DATE June 19, 2000		GROUP ART UNIT 1645	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,238,195	12/9/80	Boguslaski et al.			
	4,238,395	12/9/80	Buckler et al.			
	4,240,751	12/23/80	Linnecke et al.			
	4,277,437	7/7/81	Maggio			
	4,280,815	7/28/81	Oberhardt et al.			
	4,293,310	10/6/81	Weber			
	4,318,846	3/9/82	Khanna et al.			
	4,352,395	10/5/82	Sydansk			
	4,352,751	10/5/82	Wieder et al.			
	4,363,759	12/14/82	Boguslaski et al.			
	4,372,745	2/8/83	Mandle et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO90/05301	5/17/90	WIPO			XX
	WO91/13075	9/5/91	WIPO			XX
OTHER DOCUMENTS						
		<i>Electrogenerated Chemiluminescent Determination of Ru(bpy)₃²⁺ at Low Levels</i> , Ege et al., <u>Anal. Chem.</u> , Vol. 56, pp. 2413-2417, 1984.				
		<i>Luminescence and Redox Reactions of the Metal-to-Ligand Charge-Transfer Excited State of Tricarbonylchloro-(polypyridyl)rhenium(I) Complexes</i> , Kalyanasundaram, <u>J. Chem. Soc., Faraday Trans.</u> , Vol. 82, pp. 2401-2415, 1986.				
		<i>Time-Resolved Fluorescence of Lanthanide Probes and Applications in Biotechnology</i> , Soini et al., <u>CRC Critical Reviews in Analytical Chemistry</u> , Vol. 18, No. 2, 1987.				
EXAMINER				DATE CONSIDERED		



FORM P INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444		
		APPLICANT Wei Huang et al.				
		FILING DATE June 19, 2000		GROUP ART UNIT 1645		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,374,120	2/15/83	Soini et al.			
	4,378,344	3/29/83	Zahradnik et al.			
	4,412,064	10/25/83	Hinman			
	4,419,453	12/6/83	Dorman et al.			
	4,425,427	1/10/84	Luderer			
	4,432,907	2/21/84	Wieder et al.			
	4,459,360	7/10/84	Marinkovich			
	4,490,216	12/25/84	McConnell			
	4,514,508	4/30/85	Hirschfeld			
	4,542,104	9/17/85	Stryer et al.			
	4,547,527	10/15/85	Ingram			
	4,565,790	1/21/86	Hemmilä et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO92/11039	7/9/92	WIPO			XX
	WO92/15712	9/17/92	WIPO			XX
OTHER DOCUMENTS						
		<i>A System for Rapid DNA Sequencing with Fluorescent Chain-Terminating Dideoxynucleotides</i> , Prober et al., <i>Science</i> , pp. 336-341, October 16, 1987.				
		<i>Solid Phase DNA Sequencing Using the Biotin-Avidin System</i> , Stahl et al., <i>Nucleic Acids Res.</i> , Vol. 16, No. 7, pp. 3025-38, April 11, 1988 (abstract only).				
		Stratagene 1988 Catalog excerpt, 1988.				
EXAMINER				DATE CONSIDERED		



FORM 100-1 (10-1-90) INFORMATION DISCLOSURE CITATION IN AN APPLICATION	DOCKET NUMBER LJL 354B	APPLICATION NUMBER 09/596,444
	APPLICANT Wei Huang et al.	
	FILING DATE June 19, 2000	GROUP ART UNIT 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,587,223	5/6/86	Soini et al.			
	4,637,988	1/20/87	Hinshaw et al.			
	4,652,440	3/24/87	Paik et al.			
	4,656,127	4/7/87	Mundy			
	4,659,839	4/21/87	Nicolotti et al.			
	4,670,572	6/2/87	Hinshaw et al.			
	4,687,732	8/18/87	Ward et al.			
	4,687,747	8/18/87	Lin			
	4,699,978	10/13/87	Barton			
	4,704,353	11/3/87	Humphries et al.			
	4,707,440	11/17/87	Stavrianopoulos			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO93/19206	9/30/93	WIPO			XX
	WO95/12607	5/11/95	WIPO			XX

OTHER DOCUMENTS

		<i>Synthetic Peptide Analogues Differentially Affect the Binding Affinities of Cyclic Nucleotide Dependent Protein Kinases for Nucleotide Substrates</i> , Bhatnagar et al., <u>Biochemistry</u> , Vol. 27, No. 6, pp. 1988-1994, 1988.
		<i>Direct Solid Phase Sequencing of Genomic and Plasmid DNA Using Magnetic Beads as Solid Support</i> , Hultman et al., <u>Nucleic Acids Res.</u> , Vol. 17, No. 13, pp. 4937-46, July 11, 1989 (abstract only).
		<i>RNA Sequencing Using Fluorescent-Labeled Dideoxynucleotides and Automated Fluorescence Detection</i> , Bauer, <u>Nucleic Acids Res.</u> , Vol. 18, No. 4, pp. 879-84, February 25, 1990 (abstract only).
		<i>A Primer-Guided Nucleotide Incorporation Assay in the Genotyping of Apolipoprotein E</i> , Syvanen et al., <u>Genomics</u> , Vol. 8, No. 4, pp. 684-92, December 1990 (abstract only).

EXAMINER	DATE CONSIDERED
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FORM PTO-449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION			DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444	
			APPLICANT Wei Huang et al.			
			FILING DATE June 19, 2000		GROUP ART UNIT 1645	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,711,955	12/8/87	Ward et al.			
	4,721,669	1/26/88	Barton			
	4,741,900	5/3/88	Alvarez et al.			
	4,745,076	5/17/88	Müller et al.			
	4,761,481	8/2/88	Hale et al.			
	4,772,548	9/20/88	Stavrianopoulos			
	4,801,804	1/31/89	Rosenthal			
	4,806,488	2/21/89	Berger, Jr. et al.			
	4,808,541	2/28/89	Mikola et al.			
	4,822,733	4/18/89	Morrison			
	4,830,786	5/16/89	Pease et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO95/21271	8/10/95	WIPO			XX
	WO96/03410	2/8/96	WIPO			XX
OTHER DOCUMENTS						
		Kary B. Mullis, "The Unusual Origin of the Polymerase Chain Reaction," <u>Scientific American</u> , pages 56-65, April 1990.				
		<i>A Brief Survey of Methods for Preparing Protein Conjugates with Dyes, Haptens, and Cross-Linking Reagents</i> , Brinkley, <u>Bioconjugate Chemistry</u> , Vol. 3, No. 1, pp. 59-70, January/February 1992.				
		<i>Trapped-Oligonucleotide Nucleotide Incorporation (TONI) Assay, A Simple Method for Screening Point Mutations</i> , Prezant et al., <u>Hum. Mutat.</u> , Vol. 1, No. 2, pp. 159-64, 1992 (abstract only).				
		<i>Time-Resolved Fluorescence of a new Europium Chelate Complex: Demonstration of Highly Sensitive Detection of Protein and DNA Samples</i> , Saha et al., <u>J. Am. Chem. Soc.</u> , Vol. 115, No. 23, pp. 11032-33, 1993.				
EXAMINER			DATE CONSIDERED			



SHEET 6 OF 12

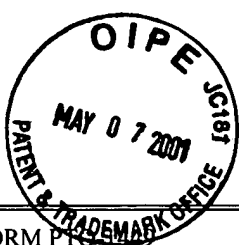
FORM P INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444		
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,849,330	7/18/89	Humphries et al.			
	4,851,331	7/25/89	Vary et al.			
	4,863,849	9/5/89	Melamede			
	4,876,190	10/24/89	Recktenwald			
	4,883,579	11/28/89	Humphries et al.			
	4,894,347	1/16/90	Hillyard et al.			
	4,915,812	4/10/90	Parce et al.			
	4,920,195	4/24/90	Kankare et al.			
	4,942,127	7/17/90	Wada et al.			
	4,943,523	7/24/90	Stavrianopoulos			
	4,946,958	8/7/90	Campbell et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO97/22719	6/26/97	WIPO			XX
	WO97/35033	9/25/97	WIPO			XX
OTHER DOCUMENTS						
		<i>Luminescent Lanthanide Complexes as Photochemical Supramolecular Devices</i> , Sabbatini et al., <u>Coordination Chemistry Reviews</u> , Vol. 123, pp. 201-228, 1993.				
		<i>Time-Resolved Detection of Lanthanide Luminescence for Ultrasensitive Bioanalytical Assays</i> , Dickson et al., <u>J. of Photochem. Photobiol. B: Biol.</u> , 27 (1995) 3-19, October 28, 1994.				
		<i>Processing of cDNA and Genomic Kilobase-Size Clones for Massive Screening, Mapping and Sequencing by Hybridization</i> , Drmanac et al., <u>BioTechniques</u> , Vol. 17, No. 2, pp. 328-336, 1994.				
		<i>Synthesis of Squaraine-N-Hydroxysuccinimide Esters and Their Biological Application as Long-Wavelength Fluorescent Labels</i> , Terpetschnig et al., <u>Anal. Chem.</u> , Vol. 217, pp. 197-204, 1994.				
EXAMINER			DATE CONSIDERED			



FORM PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION			DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444	
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,956,275	9/11/90	Zuk et al.			
	4,962,020	10/9/90	Tabor et al.			
	4,963,658	10/16/90	Kung et al.			
	4,966,917	10/30/90	White			
	4,978,608	12/18/90	Kung et al.			
	5,004,806	4/2/91	Kung			
	5,011,770	4/30/91	Kung et al.			
	5,032,677	7/16/91	Hale et al.			
	5,055,578	10/8/91	Hale et al.			
	5,077,037	12/31/91	Wallace			
	5,086,002	2/4/92	Hillyard et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO97/40104	10/30/97	WIPO			XX
	WO97/45739	12/4/97	WIPO			XX
OTHER DOCUMENTS						
		<i>Sorting Single Molecules: Application to Diagnostics and Evolutionary Biotechnology</i> , Eigen et al., <u>PNAS</u> , Vol. 91, pp. 5740-5747, 1994.				
		<i>Fluorescence-Based DNA Minisequence Analysis for Detection of Known Single-Base Changes in Genomic DNA</i> , Kobayashi et al., <u>Mol. Cell Probes</u> , Vol. 9, No. 3, pp. 175-82, June 1995 (abstract only).				
		<i>Hybridization of Fluorescein-Labeled DNA Oligomers Detected by Fluorescence Anisotropy with Protein Binding Enhancement</i> , Kumke et al., <u>Anal. Chem.</u> , Vol. 67, No. 21, November 1, 1995.				
EXAMINER			DATE CONSIDERED			



FORM PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444		
		APPLICANT Wei Huang et al.				
		FILING DATE June 19, 2000		GROUP ART UNIT 1645		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	5,104,804	4/14/92	Humphries et al.			
	5,106,957	4/21/92	Hale et al.			
	5,112,134	5/12/92	Chow et al.			
	5,116,989	5/26/92	Hale et al.			
	5,180,828	1/19/93	Ghazarossion et al.			
	5,202,423	4/13/93	Kankare et al.			
	5,216,134	6/1/93	Mukkala et al.			
	5,221,605	6/22/93	Bard et al.			
	5,225,543	7/6/93	Eppler et al.			
	5,232,858	8/3/93	Wolfbeis et al.			
	5,238,808	8/24/93	Bard et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO98/01472	1/15/98	WIPO			XX
	WO98/05962	2/12/98	WIPO			XX
OTHER DOCUMENTS						
		<i>Fluorescence Energy Transfer Immunoassay Based on a Long-Lifetime Luminescent Metal-Ligand Complex</i> , Young et al., <i>Analytical Biochemistry</i> , Vol. 232, pp. 24-30, 1995.				
		Jeffrey Sipior et al., "A Lifetime-Based Optical CO ₂ Gas Sensor with Blue or Red Excitation and Stokes or Anti-Stokes Detection," <i>Analytical Biochemistry</i> , 227, 309-318 (1995).				
		Jonathan Burke, "Gene Genie," <i>The Red Herring</i> , internet pages 1-7, December 1996.				
EXAMINER			DATE CONSIDERED			



FORM PTO-101 INFORMATION DISCLOSURE CITATION IN AN APPLICATION	DOCKET NUMBER LJL 354B	APPLICATION NUMBER 09/596,444
	APPLICANT Wei Huang et al.	
	FILING DATE June 19, 2000	GROUP ART UNIT 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	5,245,038	9/14/93	Hale et al.			
	5,246,867	9/21/93	Lakowicz et al.			
	5,252,293	10/12/93	Drbal et al.			
	5,252,462	10/12/93	Drevin et al.			
	5,252,740	10/12/93	Hale et al.			
	5,256,535	10/26/93	Ylikoski et al.			
	5,274,113	12/28/93	Kang et al.			
	5,278,048	1/11/94	Parce et al.			
	5,279,943	1/18/94	Mathis et al.			
	5,283,173	2/1/94	Fields et al.			

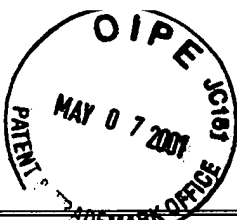
FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
WO98/18956	5/7/98	WIPO			XX	
WO98/23942	6/4/98	WIPO			XX	

OTHER DOCUMENTS

	Chemical Abstracts number 124:160,011; abstract for LINDSTROEM et al., "Electron transport properties in dye-sensitized nanocrystalline/nanostructured titanium dioxide films: J. Phys. Chem. Vol. 100 (8), pp. 3084-3088, 1996.
	<i>Multiplex, Fluorescent, Solid-Phase Minisequencing for Efficient Screening of DNA Sequence Variation</i> , Pastinen et al., <i>Clinical Chemistry</i> , Vol. 42, No. 9, pp. 1391-1397, 1996.
	<i>Comparative Study of Fluorescent Ternary Terbium Complexes. Application in Enzyme Amplified Fluorimetric Immunoassay for α-fetoprotein</i> , Veiopoulou et al., <i>Analytica Chimica Acta</i> , Vol. 335, pp. 177-184, 1996.
	Chemical Abstracts number 126:72,240; abstract for HERMANN et al, "Structure of Nanocrystalline TiO ₂ Powders and Precursor to Their Highly Efficient Photosensitizer", Chem. Mater. Vol. 9 (2), pp. 430-439, 1997.

EXAMINER	DATE CONSIDERED
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FORM PTO-T449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION			DOCKET NUMBER LJL 354B		APPLICATION NUMBER 09/596,444	
			APPLICANT Wei Huang et al.			
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	5,302,509	4/12/94	Cheeseman			
	5,310,687	5/10/94	Bard et al.			
	5,312,986	5/17/94	Simon et al.			
	5,315,015	5/24/94	Hui et al.			
	5,316,909	5/31/94	Xu			
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SHEET 11 OF 12

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			APPLICANT Wei Huang et al.			
			FILING DATE June 19, 2000		GROUP ART UNIT 1645	
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